# PDH/SDH/OTH Technologies (TK811)

## Prerequisites

Participants must have some technical knowledge in telecommunications, and some basic knowledge in PDH & SDH

## Targetgroups

All personnel starting a sequence of SDH training, from Planning and Engineering to Management Experts and Service should attend.

## Duration

2.0 days

## Course content

## PDH Technology

- ANSI/CEPT standards
- Description of the Frame structure
- Principles of PDH Multiplexing

## SDH Technology

- ITU-T Recommendations for Synchronous Digital Hierarchy
- Description of the STM-1 Frame structure
- Multiplexing of SDH Signals
- Synchronization of STM-1 Frames
- STM-1 Signal: basic elements

## Mapping of PDH/ATM over SDH

- Mapping of PDH signals over SDH
- Mapping of ATM Cells over SDH
- Concatenation of Payloads

## Pointer

- Principle and Functions
- Types and structure



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## Description of the Overhead and its functions

- Overhead Functions
- Section Overhead : MSOH & RSOH
- Path Overhead

## Monitoring of the SDH signal

- Bit Interleaved Parity
- Remote error Indication and Remote defect Indication
- Alarm Indication signal



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